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## METHODS AND APPARATUS FOR OBJECT RECOGNITION AND COMPRESSION

## Abstract of the Disclosure

Apparatus and methods are provided for object recognition and compression. The apparatus (114) comprises an object processor (402) configured to receive the image (120) and synthesize a contour (404) of an object within the image (120)and a classification engine (406)configured to receive the contour (404) of the image (120) and recognize the object within the image as a member of a first object class if the object substantially meets first object criteria of the first object class that is at least partially related to the target-specific utility of the The apparatus (114) also comprises a multi-rate image. encoder (116) configured to compress a first region of the image (120) having said object recognized as said member of said first object class at a first coding rate, said first coding rate providing a first coding resolution of said that is greater than a second first region resolution provided by a second coding rate for the image.